





The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/673,785C

Source: 1600 Rush

Date Processed by STIC: 5/6/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:
 - U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

error detected	SUGGESTED CORRECTION SERIAL NUMBER: 09/673, 785C	
attn: New Rules Case	s: Please disregard english "Alpha" Headers, which were inserted by Pto S	OFTWAR
lWrapped Nucleics Wrapped Aminos	The number text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	-
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; the use space characters, instead.	•
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	-
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	•
6Patentin 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unioniwn sequences.	_
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.	
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or the Artificial Sequence	11.21%
1Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	7
2Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.) •
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

AMC/MH - Biotechnology Systems Branch - 08/21/2001





1600

RAW SEQUENCE LISTING DATE: 05/06/2003 PATENT APPLICATION: US/09/673,785C TIME: 10:23:36

Input Set : A:\8830-170.ST25.txt

Output Set: N:\CRF4\05062003\1673785C.raw

```
3 <110> APPLICANT: The Queen's University of Belfast
              Nelson, John
             Walker, Brian
             McFerran, Neil
      6
              Patrick, Harriot
      9 <120> TITLE OF INVENTION: Peptide Fragments of Murine Epidermal Growth Factor as
Laminin
             Receptor Targets
     10
     12 <130> FILE REFERENCE: 8830-170 (43784-181696)
    14 <140> CURRENT APPLICATION NUMBER: US 09/673,785C
C--> 15 <141> CURRENT FILING DATE: 2000-12-19
    17 <150> PRIOR APPLICATION NUMBER: PCT/GB99/01211
     18 <151> PRIOR FILING DATE: 1999-04-21
                                                               Does Not Comply
                                                           Corrected Diskette Needec
     20 <150> PRIOR APPLICATION NUMBER: 9808407.2
     21 <151> PRIOR FILING DATE: 1998-04-22
     23 <160> NUMBER OF SEQ ID NOS: 31
                                                              pp 2-6
     25 <170> SOFTWARE: PatentIn version 3.2
    27 <210> SEQ ID NO: 1
     28 <211> LENGTH: 9
     29 <212> TYPE: PRT
     30 <213> ORGANISM: Artificial sequence
     32 <220> FEATURE:
     33 <223> OTHER INFORMATION: Artificial Sequence based on linear sequence of amino acids
             925-933 of mature muring laminin B1 chain
    37 <220> FEATURE:
    38 <221> NAME/KEY: MOD_RES
     39 <222> LOCATION: (9)..(9)
     40 <223> OTHER INFORMATION: AMIDATION
    42 <400> SEQUENCE: 1
    44 Cys Asp Pro Gly Tyr Ile Gly Ser Arg
    45 1
    48 <210> SEQ ID NO: 2
    49 <211> LENGTH: 10
    50 <212> TYPE: PRT
    51 <213> ORGANISM: Artificial Sequence
    53 <220> FEATURE:
    54 <223> OTHER INFORMATION: Artificial Sequence based on amino acid residues 33 to 42 of
             murine epidermal growth factor (mEGF)
    57 <400> SEQUENCE: 2
    59 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
                                            10
    63 <210> SEQ ID NO: 3
    64 <211> LENGTH: 10
    65 <212> TYPE: PRT
```

DATE: 05/06/2003

TIME: 10:23:36

```
Input Set : A:\8830-170.ST25.txt
                     Output Set: N:\CRF4\05062003\I673785C.raw
     66 <213> ORGANISM: Artificial Sequence
                                                         source of source of genetic paterial (see item 11 on Euro Summany)
     68 <220> FEATURE:
     69 <223> OTHER INFORMATION Artificial Sequence
     72 <220> FEATURE:
     73 <221> NAME/KEY: MISC_FEATURE
     74 <222> LOCATION: (5)..(5)
     75 <223> OTHER INFORMATION: tyrosine analogue at position 5
     77 <400> SEQUENCE: 3
W--> 79 Cys Val Ile Gly Xaa Ser Gly Asp Arg Cys
     80 1
     83 <210> SEQ ID NO: 4
     84 <211> LENGTH: 10
     85 <212> TYPE: PRT
     86 <213> ORGANISM: Artificial sequence
     88 <220> FEATURE:
     89 <223> OTHER INFORMATION: Artificial Sequence
    92 <220> FEATURE:
     93 <221> NAME/KEY: MISC_FEATURE
     94 <222> LOCATION: (9)..(9)
     95 <223> OTHER INFORMATION: arginine analogue at position 9
     97 <400> SEOUENCE: 4
W--> 99 Cys Val Ile Gly Tyr Ser Gly Asp Xaa Cys
     100 1
     103 <210> SEQ ID NO: 5
     104 <211> LENGTH: 10
     105 <212> TYPE: PRT
     106 <213> ORGANISM: Artificial Sequence
     108 <220> FEATURE:
     109 <223> OTHER INFORMATION: Artificial Sequence
     112 <220> FEATURE:
     113 <221> NAME/KEY: MOD_RES
     114 <222> LOCATION: (1)..(1)
     115 <223> OTHER INFORMATION: ACETYLATION
     117 <400> SEQUENCE: 5
     119 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
     120 1
                                              10
     123 <210> SEO ID NO: 6
     124 <211> LENGTH: 10
     125 <212> TYPE: PRT
     126 <213> ORGANISM: Artificial Sequence
     128 <220> FEATURE:
     129 <223> OTHER INFORMATION (Artificial Sequence
     132 <220> FEATURE:
     133 <221> NAME/KEY: MOD_RES
     134 <222> LOCATION: (10)..(10)
     135 <223> OTHER INFORMATION: AMIDATION
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,785C

137 <400> SEQUENCE: 6

140 1

139 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys

10

RAW SEQUENCE LISTING DATE: 05/06/2003 PATENT APPLICATION: US/09/673,785C TIME: 10:23:36

Input Set : A:\8830-170.ST25.txt

Output Set: N:\CRF4\05062003\I673785C.raw

```
143 <210> SEQ ID NO: 7
     144 <211> LENGTH: 10
     145 <212> TYPE: PRT
     146 <213> ORGANISM: Artificial Sequence
     148 <220> FEATURE:
     149 <223> OTHER INFORMATION: Artificial Sequence
     152 <220> FEATURE:
     153 <221> NAME/KEY: MOD_RES
     154 <222> LOCATION: (1)..(1)
     155 <223> OTHER INFORMATION: Acteoamido methyl group
     157 <220> FEATURE:
     158 <221> NAME/KEY: MOD_RES
     159 <222> LOCATION: (1)..(1)
     160 <223> OTHER INFORMATION: ACETYLATION
     162 <220> FEATURE:
     163 <221> NAME/KEY: MOD_RES
     164 <222> LOCATION: (10)..(10)
     165 <223> OTHER INFORMATION: AMIDATION
     167 <220> FEATURE:
     168 <221> NAME/KEY: MOD_RES
     169 <222> LOCATION: (10)..(10)
    · 170 <223> OTHER INFORMATION: Acteoamido methyl group
     172 <400> SEQUENCE: 7
     174 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
                                               10
     175 1
     178 <210> SEQ ID NO: 8
     179 <211> LENGTH: 10
     180 <212> TYPE: PRT
     181 <213> ORGANISM: Artificial Sequence
     183 <220> FEATURE:
                                  TURE

Use One i represent a

Tic-OH (tetrahydroisoquinoli/ne) at position 5 pingle and
     184 <223> OTHER INFORMATION:
     187 <220> FEATURE:
     188 <221> NAME/KEY: MISC_FEATURE
     189 <222> LOCATION: (5)..(5)
     190 <223> OTHER INFORMATION:
     192 <400> SEQUENCE: 8
W--> 194 Cys Val Ile Gly Xaa/Ser Gly Asp Arg Cys
     195 1
                                               10
     198 <210> SEQ ID NO: 9
     199 <211> LENGTH: 10
     200 <212> TYPE: PRT
     201 <213> ORGANISM: Artificial Sequence
     203 <220> FEATURE:
     204 <223> OTHER INFORMATION: Artificial Sequence
    207 <220> FEATURE:
     208 <221> NAME/KEY: MISC_FEATURE
     209 <222> LOCATION: (9)..(9)
     210 <223> OTHER INFORMATION: Citrulline at position 9
     212 <400> SEQUENCE: 9
```

DATE: 05/06/2003 TIME: 10:23:36

```
Input Set : A:\8830-170.ST25.txt
                     Output Set: N:\CRF4\05062003\I673785C.raw
W--> 214 Cys Val Ile Gly Tyr Ser Gly Asp Xaa Cys
     215 1
     218 <210> SEQ ID NO: 10
     219 <211> LENGTH: 9
     220 <212> TYPE: PRT
     221 <213> ORGANISM: Artificial Sequence
     223 <220> FEATURE:
     224 <223> OTHER INFORMATION: Artificial Sequence
     227 <220> FEATURE:
     228 <221> NAME/KEY: MISC_FEATURE
     229 <222> LOCATION: (5)..(5)
     230 <223> OTHER INFORMATION: 2',6'-dimethyl-beta-methyl-tyrosine at position 5 of linear
               sequence of amino acids 925-933 of the mature murine b1 chain
     233 <400> SEQUENCE: 10
W--> 235 Cys Asp Pro Gly Xaa Ile Gly Ser Arg
     236 1
     239 <210> SEQ ID NO: 11
     240 <211> LENGTH: 9
     241 <212> TYPE: PRT
     242 <213> ORGANISM: Artificial Sequence
     244 <220> FEATURE:
     245 <223> OTHER INFORMATION: Artificial Sequence
     248 <220> FEATURE:
     249 <221> NAME/KEY: MISC_FEATURE
     250 <222> LOCATION: (5)..(5)
     251 <223> OTHER INFORMATION: 2-0-methyl-tyrosine at position 5 of linear sequence of
amino
               acids 925-933 of the mature murine b1 chain
     252
     254 <400> SEQUENCE: 11
W--> 256 Cys Asp Pro Gly Xaa Ile Gly Ser Arg
     257 1
     260 <210> SEO ID NO: 12
     261 <211> LENGTH: 9
     262 <212> TYPE: PRT
     263 <213> ORGANISM: Artificial Sequence
     265 <220> FEATURE:
     266 <223> OTHER INFORMATION: Artificial Sequence
     269 <220> FEATURE:
     270 <221> NAME/KEY: MISC_FEATURE
     271 <222> LOCATION: (5)..(5)
     272 <223> OTHER INFORMATION: 2-O-ethyl-tyrosine at position 5 of linear sequence of amino
               acids 925-933 of the mature murine b1 chain
     275 <400> SEQUENCE: 12
W--> 277 Cys Asp Pro Gly Xaa Ile Gly Ser Arg
     278 1
     281 <210> SEQ ID NO: 13
     282 <211> LENGTH: 10
     283 <212> TYPE: PRT
     284 <213> ORGANISM: Artificial Sequence
     286 <220> FEATURE:
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,785C

```
RAW SEQUENCE LISTING DATE: 05/06/2003
PATENT APPLICATION: US/09/673,785C TIME: 10:23:36

Input Set: A:\8830-170.ST25.txt
Output Set: N:\CRF4\05062003\1673785C.raw
```

```
287 <223> OTHER INFORMATION: Artificial Sequence
                                           X aa can only represent a single amind aid
     290 <220> FEATURE:
     291 <221> NAME/KEY: MISC_FEATURE
     292 <222> LOCATION: (5)..(5)
     293 <223> OTHER INFORMATION: Tic-OH substituted at position 5 of sequence based on mEGF
32-42
     295 <220> FEATURE:
     296 <221> NAME/KEY: MISC_FEATURE
     297 <222> LOCATION: (9)..(9)
     298 <223> OTHER INFORMATION: Citrulline at position 9 of sequence based on mEGF 32-42
     300 <400> SEQUENCE: 13
W--> 302 Cys Val Ile Gly Xaa Ser Gly Asp Xaa Cys
     303 1
     306 <210> SEQ ID NO: 14
     307 <211> LENGTH: 10
     308 <212> TYPE: PRT
                                                          Please correct this type of
error in subsequent sequences
     309 <213> ORGANISM: Artificial Sequence
     311 <220> FEATURE:
     312 <223> OTHER INFORMATION Aritificial Sequence
     315 <220> FEATURE:
     316 <221> NAME/KEY: DISULFID
     317 <222> LOCATION: (1)..(10)
     318 <223> OTHER INFORMATION: Disulphide bond betwen N and C terminal cysteines of
sequence
     319
               based on mEGF 33-42
     321 <400> SEQUENCE: 14
     323 Cys Val Ile Gly Tyr Ser Gly Asp Arg Cys
     327 <210> SEQ ID NO: 15
     328 <211> LENGTH: 20
     329 <212> TYPE: PRT
     330 <213> ORGANISM: Artificial Sequence
     332 <220> FEATURE:
     333 <223> OTHER INFORMATION: Artificial Sequence corresponding to COOH terminal end of
the
     334
               human laminin receptor
     336 <400> SEQUENCE: 15
     338 Pro Thr Glu Asp Trp Ser Ala Gln Pro Ala Thr Glu Asp Trp Ser Ala
     339 1
     342 Ala Pro Thr Ala
     343
                     20
     346 <210> SEQ ID NO: 16
     347 <211> LENGTH: 10
     348 <212> TYPE: PRT
     349 <213> ORGANISM: Artificial Sequence
     351 <220> FEATURE:
     352 <223> OTHER INFORMATION: Artificial Sequence - peptide substitution I
     355 <220> FEATURE:
     356 <221> NAME/KEY: MOD RES
     357 <222> LOCATION: (1)..(1)
     358 <223> OTHER INFORMATION: ACETYLATION
     360 <220> FEATURE:
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/06/2003

PATENT APPLICATION: US/09/673,785C TIME: 10:23:37

Input Set : A:\8830-170.ST25.txt

Output Set: N:\CRF4\05062003\I673785C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 5/ Seq#:4; Xaa Pos. 5/ Seq#:8; Xaa Pos. 5/ Seq#:9; Xaa Pos. 5/ Seq#:10; Xaa Pos. 5/ Seq#:11; Xaa Pos. 5/ Seq#:12; Xaa Pos. 5/ Seq#:13; Xaa Pos. 5/ Seq#:19; Xaa Pos. 5/ Seq#:20; Xaa Pos. 5/ Seq#:27; Xaa Pos. 3,5/ Seq#:29; Xaa Pos. 4,7/ Seq#:30; Xaa Pos. 4,7/ Seq#:31; Xaa Pos. 5/

VERIFICATION SUMMARY

DATE: 05/06/2003 PATENT APPLICATION: US/09/673,785C TIME: 10:23:37

Input Set : A:\8830-170.ST25.txt

Output Set: N:\CRF4\05062003\I673785C.raw

```
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L\!:\!527 M\!:\!341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
```